Sean Carter

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# Summary

Data analyst with experience in building machine learning models and pipelines, conducting traditional statistical analyses, managing and collating data across multiple sources, and building presentations of results, excited to apply an analytical mindset to solving real world problems. Prior experience includes extensive work in SQL, Python, R, and Excel, as well as in building pipelines, models, and visualizations using pandas, numpy, sklearn, and ggplot2.

# Education

## Master | University of South Florida

* **Mathematics and Statistics**
* Thesis defense scheduled for Fall of 2019

## Bachelor | Completed MAY 2017 | University of South Florida

• **Molecular Biology** • Minor: Mathematics

# Skills & Abilities

## Machine Learning, Model Building, and Data Science

* Prior experience building pipelines and frameworks for predictive model pipelines
* Extensive experience with Python data science frameworks, including pandas, numpy, and sklearn
* Practiced in a wide range of predictive models, including CART and decision tree methods, gradient boosting, random forests, logistic and linear regression, and natural language models
* Experience managing large databases, tables, and analytical projects using SQL, Microsoft SQL Server, Linux, and Git

## Data Analysis and Presentation

* Trained in traditional analytical techniques, including hypothesis testing, linear models, and probability theory
* Experienced turning analyses into presentable results using graphical libraries such as ggplot2 and seaborn as well as building visualizations and interactive tables in Excel and preparing reports and presentations in Word and Powerpoint

## Other Programming and Software Proficiencies

* Proficient in Python and R and associated frameworks, with experience in object oriented languages such as C# and Java
* Extensive familiarity with the Microsoft Office Suite, especially Excel and Visual Basic, as well as Microsoft SQL Server
* Considerable experience working in Linux

# Awards and Extracurriculars

## Recipient of American Society of Quality Student Grant

* Grant given to attend the 2018 Fall Technical Conference in West Palm Beach

## Recipient of NSF iCorp Grant

* Grant awarded in Spring 2019 to develop a business collaboration with a faculty member at USF

## Presented at 14th Annual Raymond N. Castle Conference

* Presented a poster on work completed as an undergraduate researcher in Dr. Brian Space’s computational chemistry lab, titled *“A Hybrid Simulation Method in LAMMPS with Application to MOF-5”*

## Brazilian Jiu Jitsu Club Vice President & Financial Officer | 2015 - 2019

* Responsibilities involved planning and managing the budget, coordinating travel and payment for competitions, and meeting the requirements for USF sports clubs
* Helped start an intercollegiate Brazilian Jiu Jitsu competitive scene, including running an annual tournament on the USF campus attended by universities from across the state.

# Work Experience

## data Science Intern | Crime Lab New York | 07/2019 - Present

* Built an internal framework for quickly generating features on and preprocessing crime records
* Built machine learning classification models for predicting revictimization in domestic violence incidents utilizing police department records

## Actuarial Analyst Intern | Sagicor Life Insurance | 03/2019 – 07/2019

* Automated several monthly, quarterly, and annual procedures using SQL and Python, cutting down time actuaries needed to spend on recurrent analyses
* Built a suite of scripts for carrying out experience studies on mortality and lapse data to bring Sagicor into compliance with new federal requirements.

## Math/Statistics Tutor | Hillsborough Community College | 06/2018 – 07/2019

* Tutored students in the Academic Success Centers on the Dale Mabry and Ybor City campuses of Hillsborough Community College. Subjects included intermediate algebra through calculus 3, and elementary statistics classes.

## Biology Lab Technician | Hillsborough Community College | 06/2017 – 06/2018

* Set up and maintained lab equipment, interfaced with students and professors, and maintained a clean and safe work environment in the lab stockroom and classrooms